

CLAIMS

1. A fluid pressure apparatus provided with a fluid pressure pump driven by an electric motor and rotatable in both directions, in which both ports of a fluid pressure actuator are respectively connected to both ports of the fluid pressure pump via a pair of flow paths and pressing against a stationary object is performed by operation of the fluid pressure actuator,

wherein a throttle is disposed on a leak flow path that communicates a high pressure side with a low pressure side of the pair of flow paths, while the pressing operation is performed by the fluid pressure actuator.

2. The fluid pressure apparatus as set forth in claim 1, further comprising a position control device for controlling the electric motor based on a position detected by a movement detection sensor for detecting movement by the fluid pressure actuator, a pressure control device for controlling the electric motor based on a pressure detected by a pressure sensor for detecting the pressure in the high pressure flow path, and a switch device for switching from control of the electric motor by the position control device to control by the pressure control device.

3. The fluid pressure apparatus as set forth in either claim 1 or 2, wherein the switch device switches from control of the electric motor by the position control device to control by the pressure control device based on detection by the movement detection sensor.

4. The fluid pressure apparatus as set forth in any one of claims from 1 through 3, wherein the fluid pressure actuator is any one of a single-rod type fluid pressure cylinder, a double-rod type fluid pressure cylinder, and a fluid pressure motor.

5. The fluid pressure apparatus as set forth in any one of claims from 1 to 4, wherein the fluid pressure pump is a piston pump.

6. The fluid pressure pump as set forth in any one of claims 1 through 5, wherein an electromagnetic valve is disposed on the leak flow path.